

802.11a Wireless LAN Outdoor AP/Extender



Long Distance Wireless with Excellent Performance

PLANET Technology introduces the latest long distance outdoor 5GHz wireless LAN solution, the WAP-7500, the outdoor wireless AP/Extender that provides **higher transmit power, better performance, and less interference**. The WAP-7500 is compatible with **IEEE 802.11a** to deliver an affordable and reliable rural connectivity solution. The WAP-7500 not only has built-in 23dBi panel Antenna but also reserves one N-Type External Antenna Connector to allow stronger antenna upgrades. Moreover, it adopts TDMA and link aggregation technologies; therefore, its wireless extensibility can reach at least 40km while ensures transmission quality.

Multiple Operation Modes

The WAP-7500 supports multiple operation modes including **Base Station, CPE, Relay, Point to Point, and Point to Multiple Point** to conveniently configure versatile solutions in a wide range of wireless scenarios. The WAP-7500 can have relay setting when two devices connect to each other without affecting wireless performance. It also supports Super mode for fast frames, bursting compression to enhance the throughput.

Advanced Security and Management

In aspect of security, besides 64/128/152 bits WEP encryption, the WAP-7500 integrates WPA / WPA2, WPA-PSK / WPA2-PSK authority to secure and protect your wireless LAN. Furthermore, the WAP-7500 is easily to be managed and configured remotely by its user-friendly Web and SNMP-Based management interface.

Highly Reliable Outdoor Device

The WAP-7500 is quite suitable for wireless LAN applications in widely open space, exposed and long distance locations. With its **IP-67** casing protection, the WAP-7500 can perform normally under rigorous weather conditions including heavy rain and wind. With the standard 802.3af Power over Ethernet (PoE) design, the WAP-7500 can be easily applied in the areas where power outlets are not available. The best application of the WAP-7500 is to build outdoor wireless network between buildings on campuses, business, rural areas and etc.

KEY FEATURES

- IEEE 802.11a standard compliant
- Wide delivery of 5GHz wireless network and better connections with less interference
- Dual-Radio: Built-in 23dBi panel Antenna, and one External N-Type Connector
- Adopts TDMA and link aggregation technologies
- IEEE 802.3af Power over Ethernet compliant
- IP-67 casing protection against rigorous weather conditions
- Wide range of temperature tolerance for low or high temperature environment
- High Transmit Output Power up to 1000mW with multiple adjustable transmit power control
- Multiple operating modes including Base Station, CPE, Relay, Point to Point, and Point to Multiple Point
- Operates on bridge and relay modes concurrently
- Supports 64/128/152-bit WEP and WPA, WPA2, WPA-PSK, WPA2-PSK Authentication
- User-friendly Web and SNMP-Based management interface

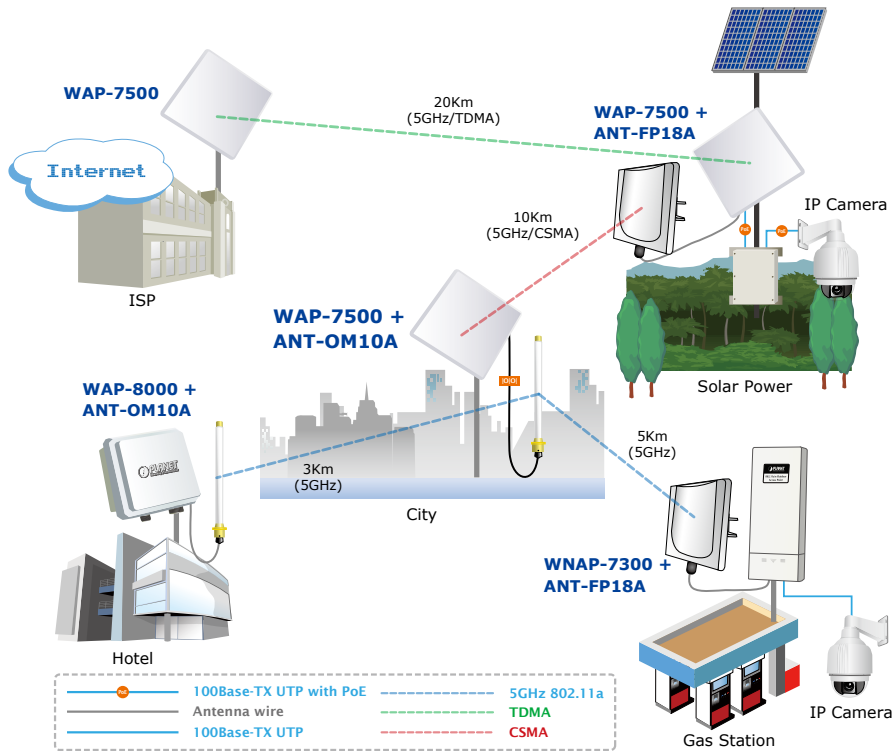
APPLICATIONS

Higher coverage & long distance between LAN connections

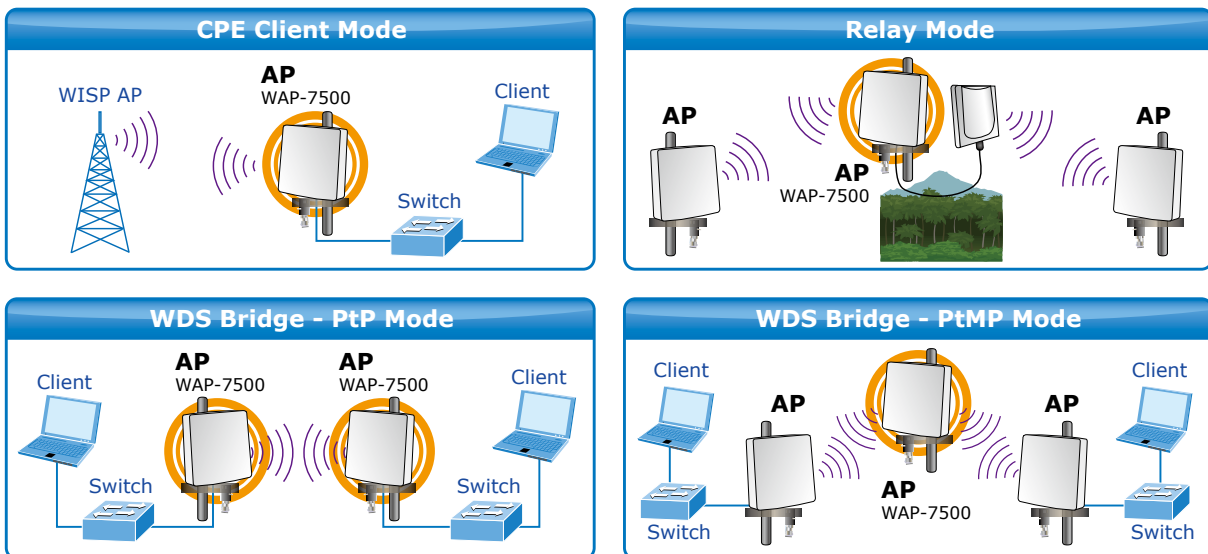
The WAP-7500 is a cost-effective outdoor wireless solution for widely open space applications. It is best suitable to outdoor wireless connections between buildings.

With Multiple Antenna choices and adjustable output power controller, the WAP-7500 provides higher coverage and long distance wireless connection and also allows CPE users to easily install and adjust the suitable value in appropriate locations.

***Sincerely suggest matching the same model in outdoor wireless bridge application for getting best performance.*



The WAP-7500 supports multiple operation modes to conveniently configure versatile solutions in a wide range of wireless scenarios.



SPECIFICATION

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|---|---|
| Product | 802.11a Wireless LAN Outdoor AP/Extender |
| Model | WAP-7500 |
| Hardware Specification | |
| Standard Support | IEEE 802.11a IEEE 802.3u |
| Network Interface | LAN: 1x 10/100Base-TX RJ-45, Auto-MDI/MDIX IEEE 802.3af Power over Ethernet PD compliant |
| Interface | RS-232 (COM): 1x RS-232 (UART) in RJ45 Form Factor |
| IP Level | 67 |
| Power | IEEE 802.3af Power over Ethernet (Output 20Watts, 48V/0.4A) |
| Wireless Interface Specification | |
| Wireless Technology | IEEE 802.11a compliant |
| Data Rates | 802.11a: 54/48/36/24/18/12/9/6Mbps |
| Antenna | Internal: 23dBi (Default for FCC) HPBW (Horizontal): 10 degree HPBW (Vertical): 10 degree External: 1x N-type Connector |
| Frequency Range | FCC: 5.725 ~ 5.850 GHz CE : 5.470 ~ 5.600 GHz 5.660 ~ 5.725 GHz (Programmable for different country regulations) |
| Channel Spacing | 40/20/10/5 MHz |
| RF Output Power | 24dBm at Radio for FCC (Band 4) 30dBm EIRP for ETSI 301 893 (Band 3) (Controllable for different country regulations) |
| Receiver Sensitivity | 6Mbps: -90dBm 54Mbps: -73dBm |
| Modulation | OFDM with BPSK, QPSK, 16-QAM, 64-QAM |
| Management Feature | |
| Management | Web-Based Management (Secure SSL) Command Line Interface(SSH) SNMPv2 Windows-Based Utility |
| Firmware Upgrade | Web / Windows management tool |
| Operation mode | <ul style="list-style-type: none"> ■ Base Station ■ CPE ■ Relay ■ Point to Point ■ Point to Multiple Point |
| Radio Bandwidth Control | 5/10/20/40MHz |
| Super Mode | Enable it for Fast Frames, Bursting Compression |
| TDM Coordination | Traffic Management |
| Link Aggregation | Throughput Enhancement |
| TDMA | For long distance transmission |
| Distance in Meters | Auto ACK-Time adjustment |
| Wireless Isolation | Yes |
| Management Statistics | Wireless and Ethernet |
| Link Test | Self-Wireless Connection test |
| Wireless Security | 64/128/152-bit WEP, WPA, WPA-PSK, WPA2, WPA2-PSK |
| User Authentication | HTTPS login 802.11i (WPA, WPA2) 802.1x (EAP-TLS / TTLS) 802.1Q VLAN Remote RADIUS server authentication |

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|------------------------|--|
| Output Power Control | Full, 50%, 25%, 12.5%, Min |
| WMM | 802.11e WMM (Wi-Fi Multimedia) |
| STP | Spanning Tree Protocol with Fast Forwarding |
| GPS Coordinate Setting | The GPS Coordinate Setting can mark the latitude and longitude of the device. |
| Diagnostic tool | System Log |
| Environment | |
| Operating Temperature | -30 ~ 70 Degree C |
| Operating Humidity | 10 ~ 95% non-condensing |
| Certification | |
| EMI | FCC: part 15, subpart B&C CE: EN301 893(5G) |
| EMS | CE EN301 489-1/17 |
| Safety | EN60950 |
| Accessory | |
| Standard Accessories | <ul style="list-style-type: none"> ■ 48V / 0.4A 802.3af PoE injector x 1 ■ AC Power cord x 1 ■ Grounding Wire with screw x 1 ■ Mounting Kit x 1 ■ Water Proof RJ-45 Connector Kit x 1 |

ORDERING INFORMATION

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|----------|---|
| WAP-7500 | 802.11a Dual RF Wireless LAN Outdoor AP |
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RELATED PRODUCT

| | |
|-----------|-------------------------------|
| CB-STP-25 | 25 Meters STP Cat5 Cable |
| ELA-100 | Ethernet Lightning Arrest Box |

ACCESSORIES

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|-----------|-------------------------------------|
| ANT-OM10A | 5GHz 10dBi Omni-directional Antenna |
| ANT-SE17A | 5GHz 16.5dBi Sector Antenna |
| ANT-FP18A | 5GHz 18dBi Flat Panel Antenna |